

SECTION A: (40 MARKS)

Answer all the questions in this section.

1. Solve the equation: $\sin x + \sin 2x + \sin 3x = 0$ for $0^\circ \leq x \leq 180^\circ$. (05 marks)

2. (a) Express $Z = \frac{3+i}{1-i}$ in the form $a + bi$, where a and b are integers. (03 marks)

(b) Find the argument of Z . (02 marks)

3. Given that $y = \ln \left\{ x \sqrt{(x+1)^3} \right\}$, find $\frac{dy}{dx}$. (05 marks)

4. A plane is perpendicular to the vector $r = (i + 3j - 2k)$ and contains the point $P(-2, 0, 4)$. Determine the equation of the plane. (05 marks)

5. Evaluate $\int_0^{\pi/3} \tan^2 \frac{1}{2} x \, dx$. (05 marks)

6. In how many ways can the letters of the word BUNDESLIGA be arranged if:

(a) there is no restriction? (02 marks)

(b) the vowels must be together? (03 marks)

7. (a) Show that the curves $y = \sin x$ and $y = \cos x$ intersect at $x = \frac{\pi}{4}$ and $x = \frac{5\pi}{4}$ in the interval $0 \leq x < 2\pi$. (04 marks)

(b) Determine the coordinates of the other intersection point. (03 marks)

8. Find the gradient of the curve $y = \sin^{-1} x$ at the point $(\frac{1}{2}, \frac{\pi}{6})$. (03 marks)

SECTION B: (40 MARKS)

Answer all the questions from this section. All questions carry equal marks.

9. A function $f(x)$ is defined by $f(x) = \frac{1}{x^2} + \frac{1}{x}$. Find $f'(x)$ and hence find the gradient of the normal to the curve at the point where $x = 1$. (05 marks)

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